

DISASTER MONITORING

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HUMAN COMPUTATION

# **1. BACKGROUND**

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- 1. Overview**
- 2. Challenges**
- 3. Humanitarian Strategies**



**gettyimages**

Anadolu Agency

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# OVERVIEW

- ▶ About UNICEF
- ▶ What Syrian refugees need?
- ▶ Challenges UNICEF meet

## ABOUT UNICEF

- ▶ It works in 190 countries and territories to protect the rights of every child. UNICEF has spent 70 years working to improve the lives of children and their families. Defending children's rights throughout their lives requires a global presence, aiming to produce results and understand their effects.



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## WHAT SYRIAN REFUGEES NEED?

- ▶ **Clothes:** e.g. winter clothing kits, thermal blankets
- ▶ **Food:** e.g. high energy biscuits
- ▶ **Water**
- ▶ **Medical:** e.g. mobile health services, vaccinations
- ▶ Delivery of **fuel**
- ▶ Cash
- ▶ Education
- ▶ Child protection



## CHALLENGES UNICEF MEET

- ▶ Critical funding gap: UNICEF 2017 goals are achieved only 6% (Iraq) and 14% (Egypt)
- ▶ hard-to-reach (HTR)
- ▶ besieged (BSG) areas



CHALLENGES

<http://www.voanews.com>

## SITUATION OVERVIEW AND HUMANITARIAN NEEDS

- ▶ nationwide cessation of hostilities, but the country remains volatile, humanitarian assistance is still needed.
- ▶ Water, Sanitation and Hygiene (WASH)

## CHALLENGES IN SYRIA:

- ▶ Years of civil war have wrecked the country's infrastructure and destroyed its social fabric.
- ▶ Transportation
- ▶ Telecommunication
- ▶ Network

## CHALLENGES IN SYRIA:

- ▶ Transport remains a very low pace
  - ▶ deterioration of security conditions
  - ▶ delays in obtaining approvals

## CHALLENGES IN SYRIA:

- ▶ Shortage of resource
  - ▶ Example: Water supply cuts --> Have to drink contaminated water --> More illness --> More medical needed

## CHALLENGES IN FIVE NEIGHBORING SYRIAN REFUGEE HOST COUNTRIES. (JORDAN, IRAQ, LEBANON, TURKEY, EGYPT):

- ▶ critical funding gap
- ▶ the quality of education, lack of teaching materials and overcrowded classrooms

TEXT

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# HUMANITARIAN STRATEGIES

UNICEF

## HUMANITARIAN STRATEGIES IN SYRIA

- ▶ make a severity mapping. give priority values to distinct humanitarian assistances in delivery.
  - ▶ Water > Food > Clothes > Medical > Fuel > Cash
  - ▶ Water and food should be delivered independently.
- ▶ Make plans based on field presence.
- ▶ promoting good hygiene practices --> reduce illness
- ▶ sustain and reactivate immunization services for children
- ▶ critical medical supplies, equipment and training
- ▶ increasing the availability of learning spaces --> strengthening the availability and quality of learning
- ▶ monitoring and reporting of grave violations --> psychosocial support and awareness raising on the dangers of unexploded remnants of war

## HUMANITARIAN STRATEGIES IN FIVE NEIGHBORING COUNTRIES

- ▶ Jordan: increasing capacity of local partners to deliver quality services, particularly in host communities, to meet the needs of both refugee and Jordanian community members.
- ▶ Iraq: incentive support to Syrian refugee teachers, strengthening of community-based child protection networks, increasing access to sustainable supply of safe water, and ensuring continued access to basic health services for children.
- ▶ Lebanon: responding to humanitarian and emergency needs with civil society actors; ensuring equal access to quality services through public systems; and strengthening government systems and infrastructure.
- ▶ Turkey: rapid scale-up of services and strengthening of existing national systems
- ▶ Egypt: strengthening the capacity and quality of public schools in targeted areas.

## **2.HC SYSTEM**

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1. Challenge
2. Source of Data
3. Data Analysis



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# 1. CHALLENGE

- ▶ 1. Identify the situation in different area
- ▶ 2. Supply-distribution based on needs
- ▶ 3. Cooperate between different organisation
- ▶ 4. No access to internet



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## 2. DATA SOURCE

- ▶ 1. Government
- ▶ 2. NGO or Media
- ▶ 3. Individual

Reliability ?

## 2. DATA SOURCE - CASE

# White Helmet



<https://www.facebook.com/TheWhiteHelmet/photos/a.177412239376483.1073741828.172128896571484/212558849195155/?type=3&theater>

<https://www.whitehelmets.org/en>

## 2. DATA SOURCE - CASE

# White Helmet ?!



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## 2 .DATA SOURCE - SOLUTION

- ▶ 1. Government
- ▶ 2. NGO or Media
- ▶ 3. Individual

Confidence value

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## 3. DATA ANALYSIS - BUILD HC SYSTEM

GWAP- Semantic pictures

### 3. DATA ANALYSIS - BUILD HC SYSTEM - SATELLITE DATA



### 3. DATA ANALYSIS - BUILD HC SYSTEM - SATELLITE DATA

#### ► Armored vehicles



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### 3. DATA ANALYSIS - BUILD HC SYSTEM - SATELLITE DATA

- ▶ Burning buildings



### 3. DATA ANALYSIS - BUILD HC SYSTEM - SATELLITE DATA

#### ► Before & After



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## 4 .CONCLUSION - HC SYSTEM

